

PART III

Applying Restoration Principles

Chapter 7: Analysis of Corridor Condition

Chapter 8: Restoration Design

**Chapter 9: Restoration Installation, Monitoring,
and Management**

Stream corridor functions are recognizable and definable for the smallest study area as well as for eco-regional levels. Because a corridor functions at all scales, the principles of restoration should be applied using those appropriate to the scale of concern.

Part III of this document is the “how to” section. The understanding gained in Part I and developed into a restoration plan in Part II is applied. Part III shows how condition analysis and design can lead to restoring corridor structure and the habitat, conduit, filter/barrier, source, and sink functions.



- **Chapter 7** discusses the measurement and analysis of corridor condition. The analysis is broken down by scale and process.
 - Physical processes, structures, and functions
 - Geomorphic and hydrological
 - Water chemistry
 - Biological analysis

This breakdown allows the generation of a “picture” of stream corridor conditions that comes into clearer focus as one descends in scale from maps and aerial photographs to the streambed.
- **Chapter 8** contains design guidance and techniques to restore stream corridor structure and functions. It is not, however, a cookbook of prescribed solutions.
- **Chapter 9** deals with construction topics which can occur after the stream corridor restoration design is complete and required permits are obtained. Careful construction and field inspection are necessary to insure that the corridor is not degraded by construction activities. At the end of successful restoration, the stream must be managed, maintained, and monitored to ensure goals and objectives are being met.